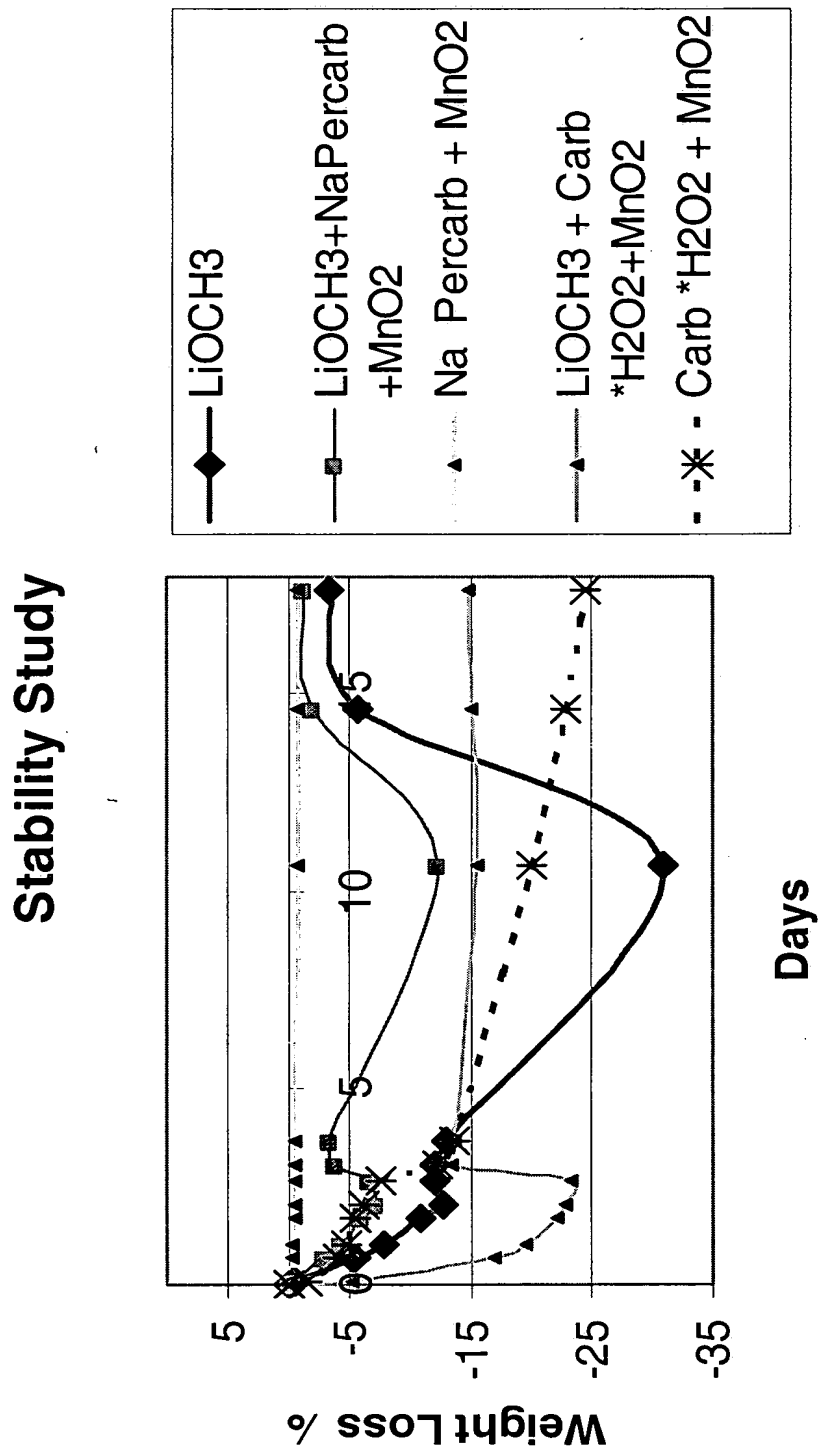


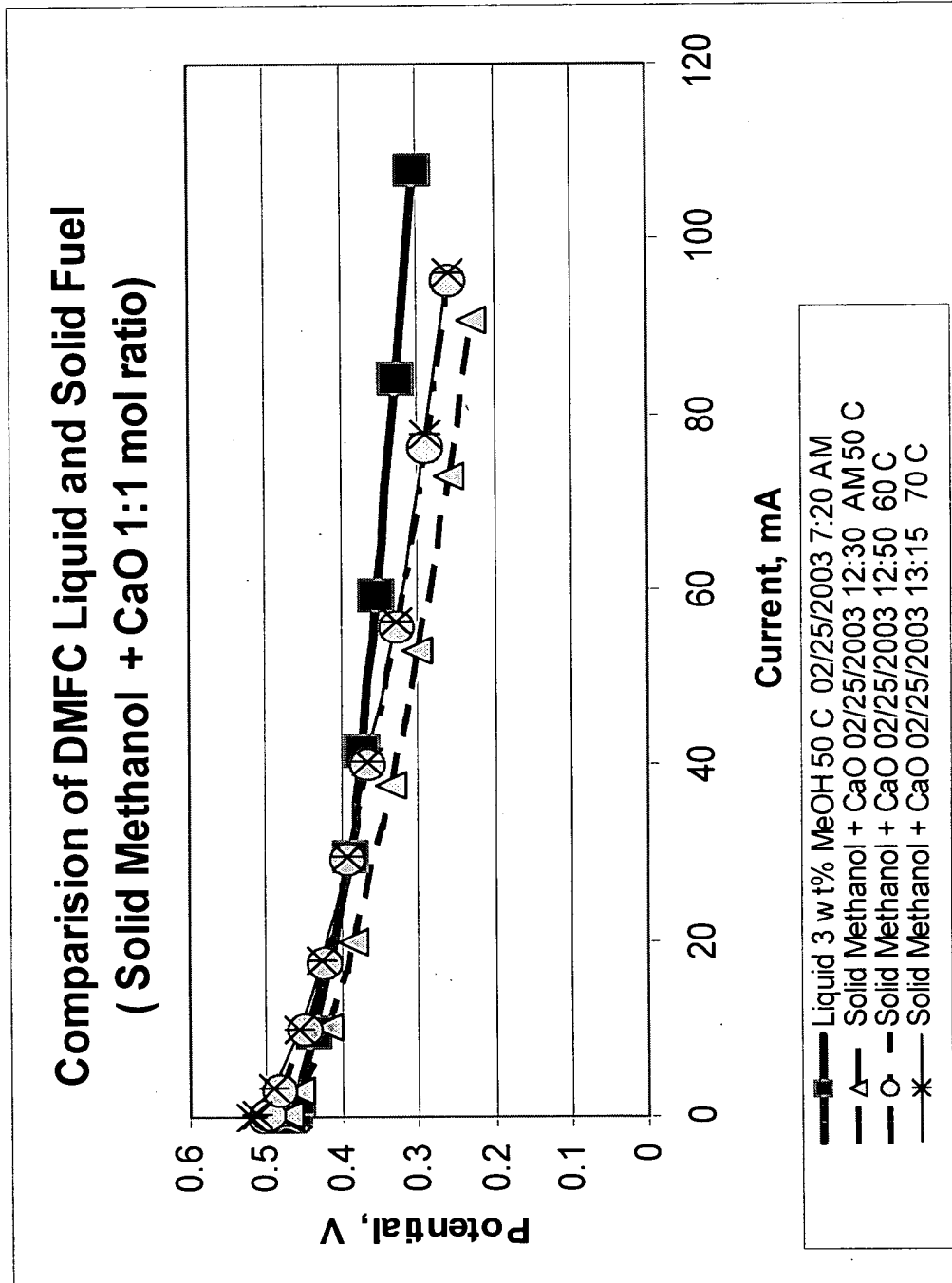
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FIG. 1



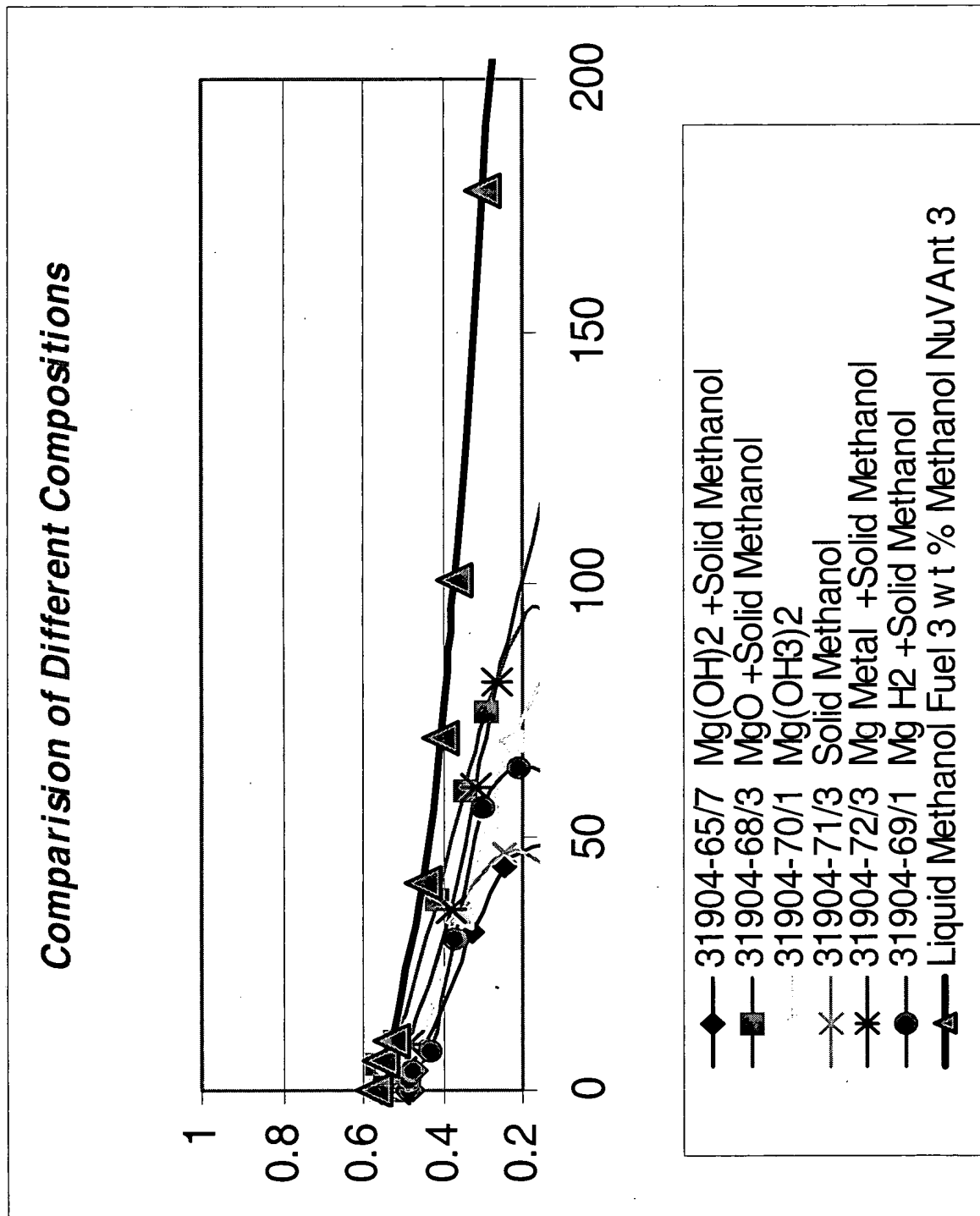
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FIG. 2



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FIG. 3



Comparison of Fuel Different Compositions Magnesium Compounds Containing Solid Fuels

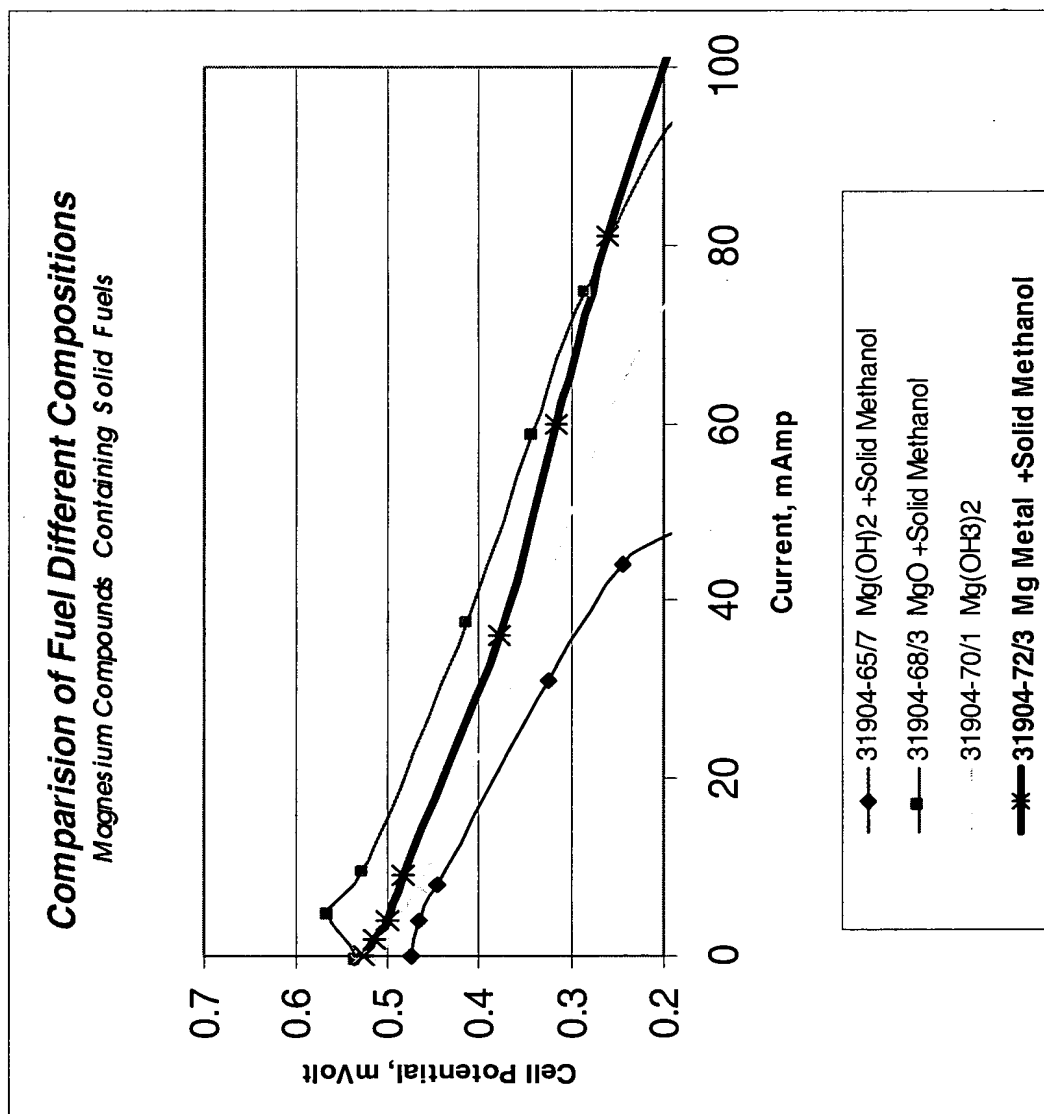
The graph displays the cell potential (mV) on the y-axis (ranging from 0.2 to 1.0) against the current (mA) on the x-axis (ranging from 0 to 200). The legend identifies the following data series:

- 31904-65/7 $\text{Mg}(\text{OH})_2$ + Solid Methanol (solid line with diamonds)
- 31904-68/3 MgO + Solid Methanol (solid line with squares)
- 31904-70/1 $\text{Mg}(\text{OH})_3)_2$ (dashed line with squares)
- 31904-71/3 Solid Methanol (dashed line with squares)
- 31904-72/3 Mg Metal + Solid Methanol (solid line with asterisks)
- 31904-73 repeat Mg+Solid Methanol + H_2SO_4 (solid line with triangles)
- 31904-69/1 Mg H_2 + Solid Methanol (solid line with circles)
- Liquid Methanol Fuel 3 wt % Methanol NuV Ant 3 (solid line with triangles)

The data shows that the cell potential generally decreases as the current increases. The 31904-73 repeat Mg+Solid Methanol + H_2SO_4 series shows the highest potential, starting around 0.9 mV at 0 mA and decreasing to about 0.3 mV at 200 mA. The other series show lower potentials, generally between 0.2 mV and 0.6 mV, with some showing a slight increase in potential at higher currents.

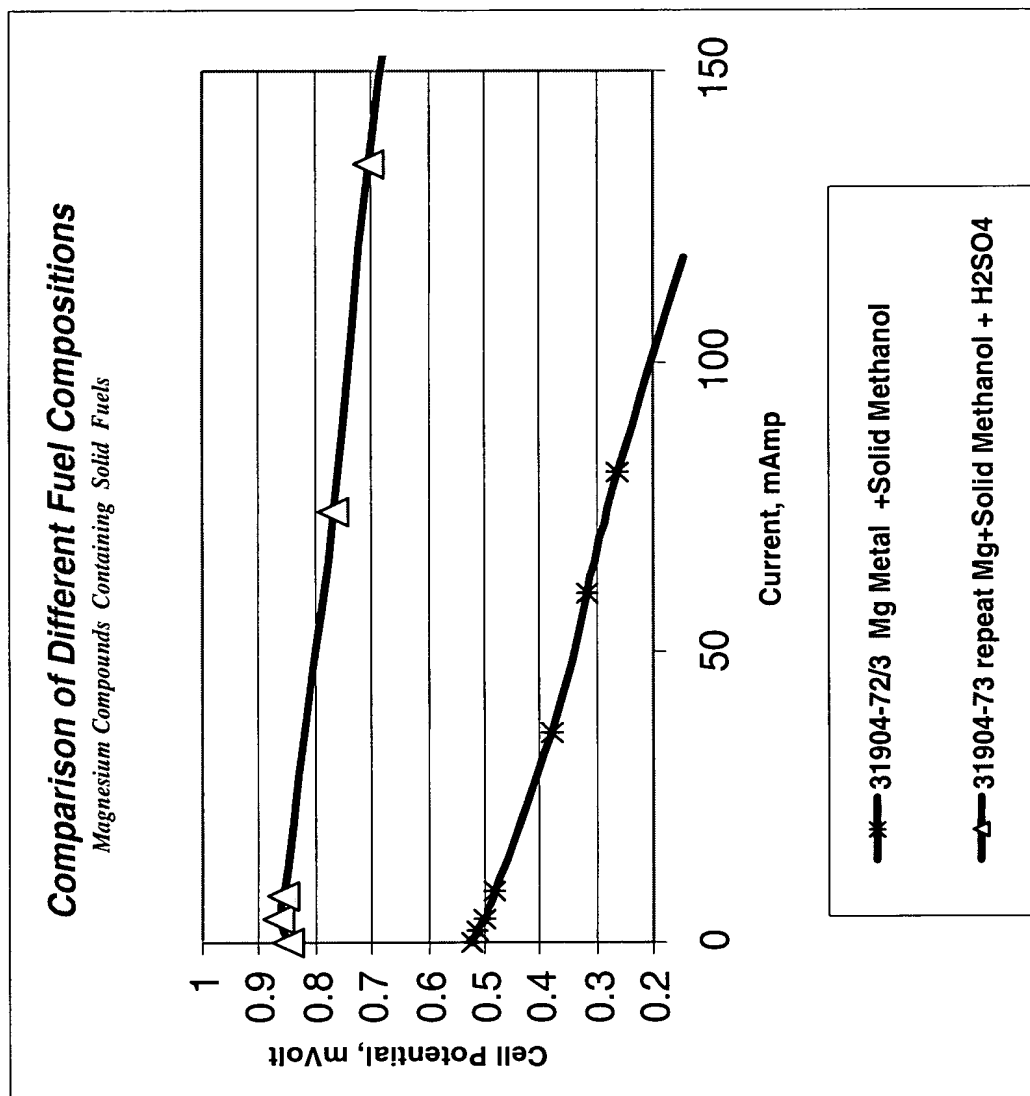
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FIG. 5



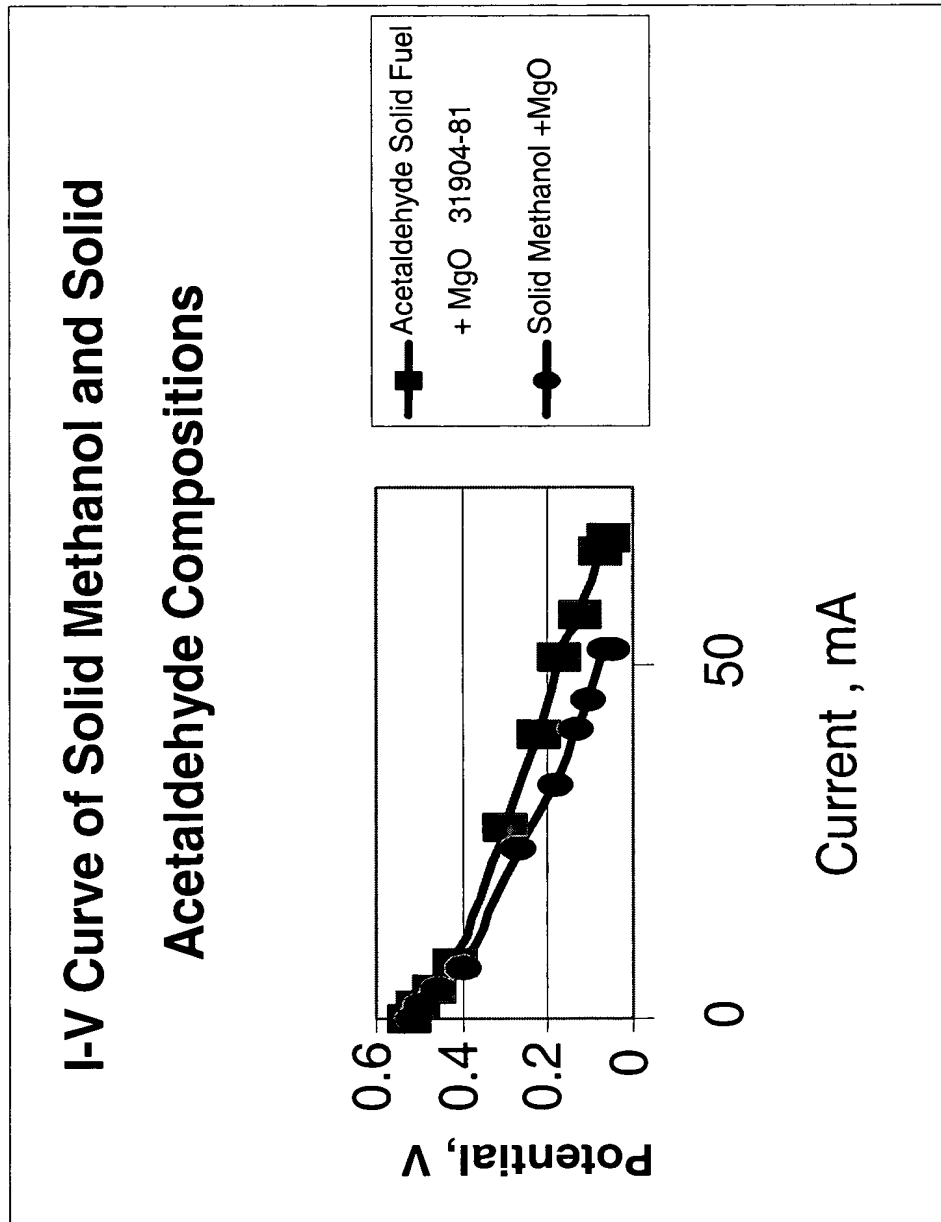
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FIG. 6



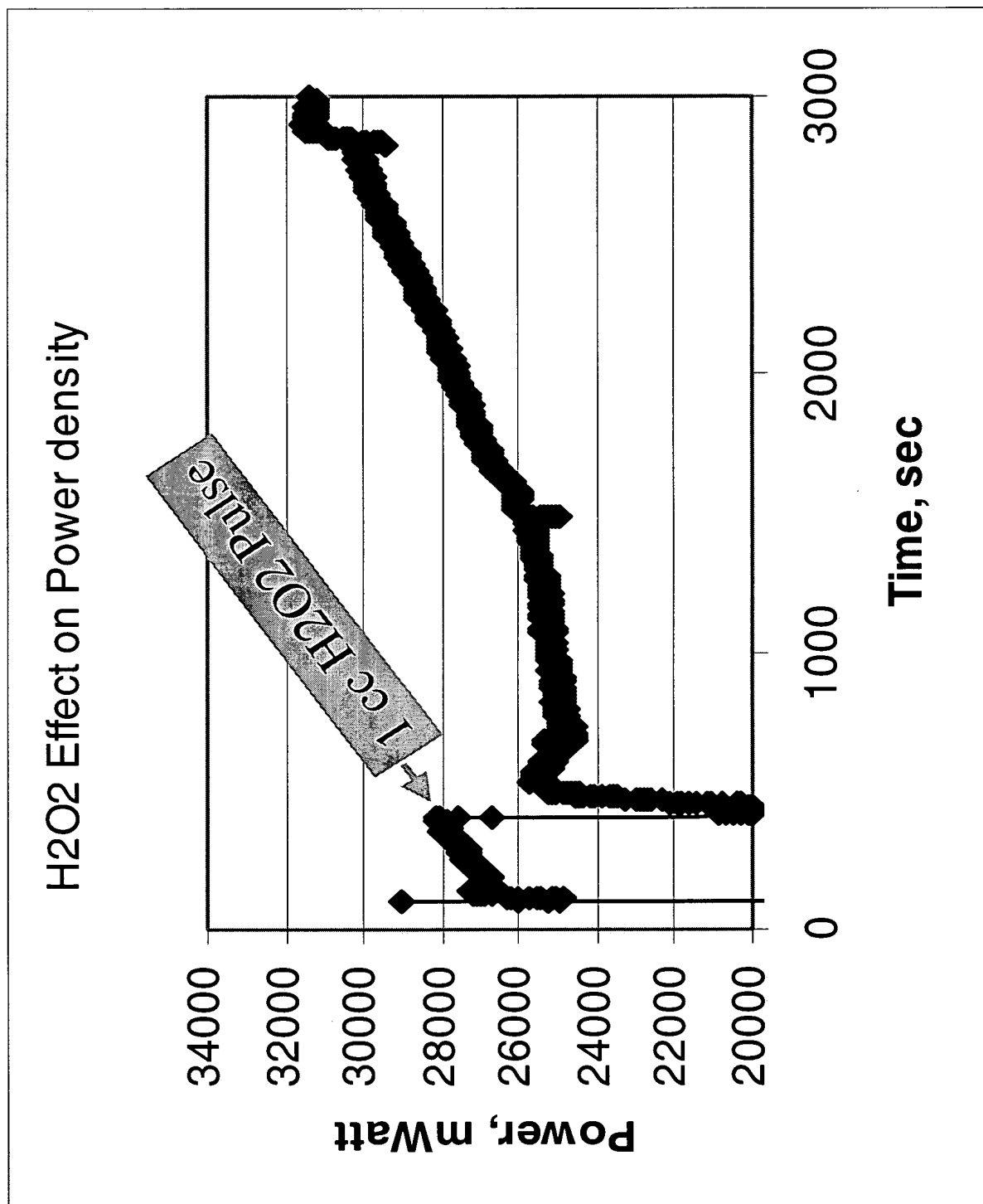
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FIG. 7



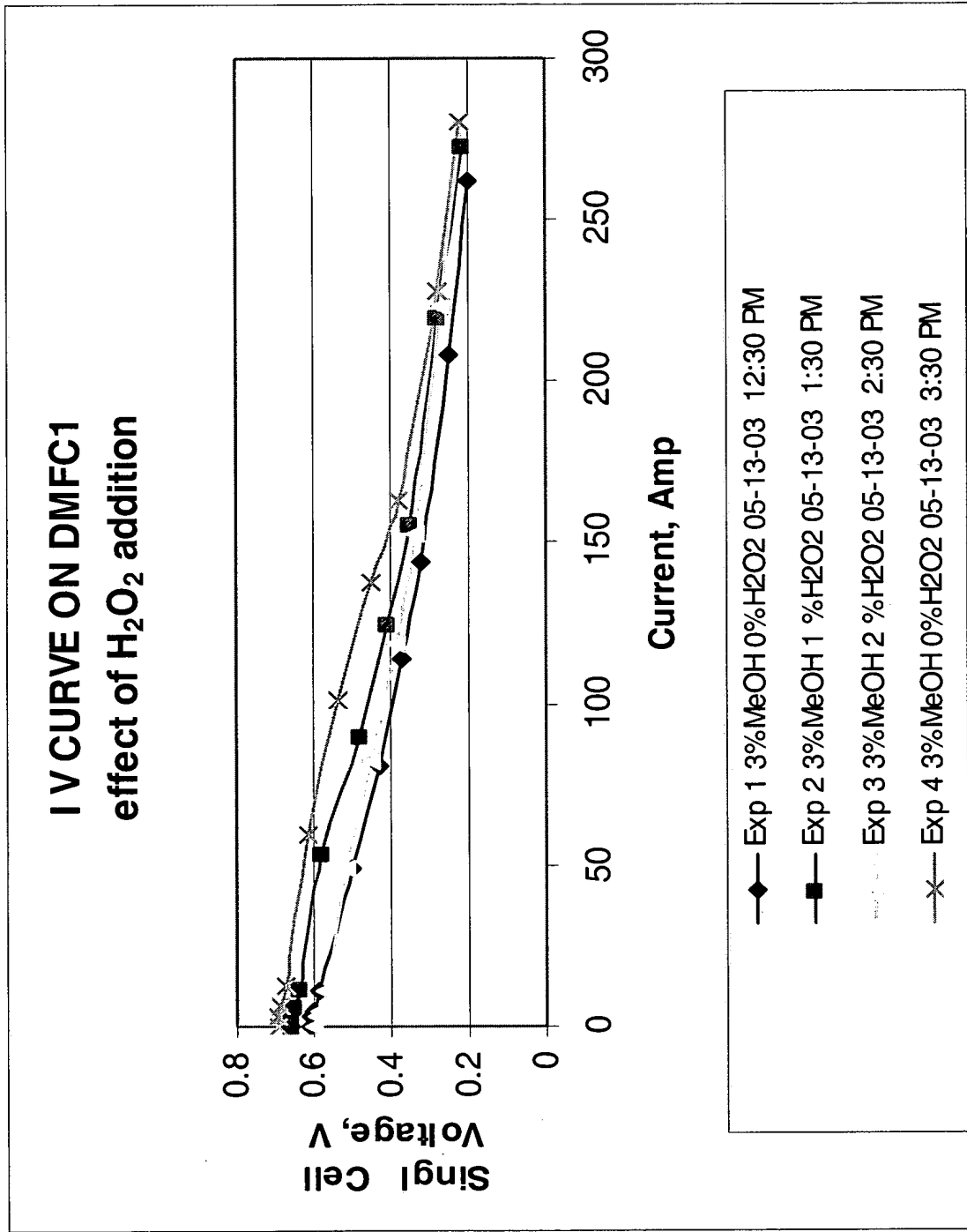
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FIG. 8



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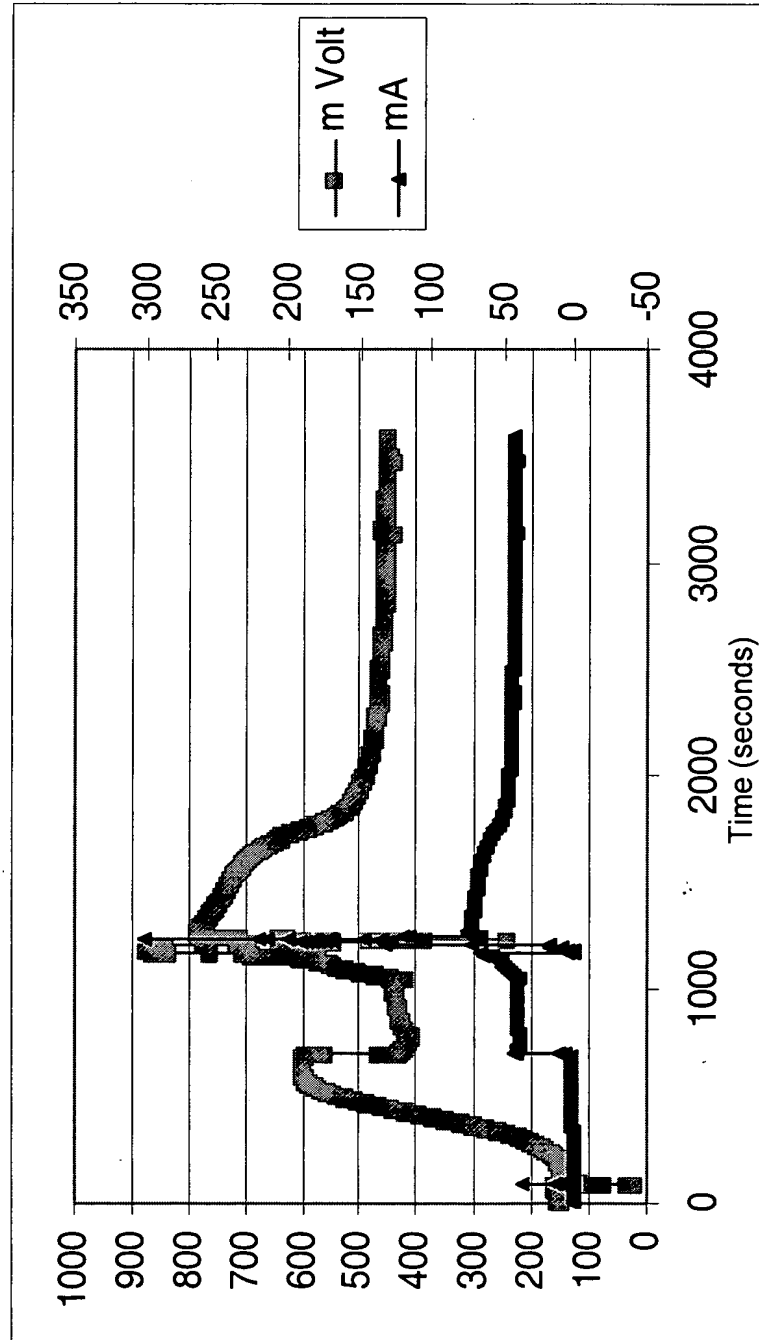
FIG. 9



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FIG. 10

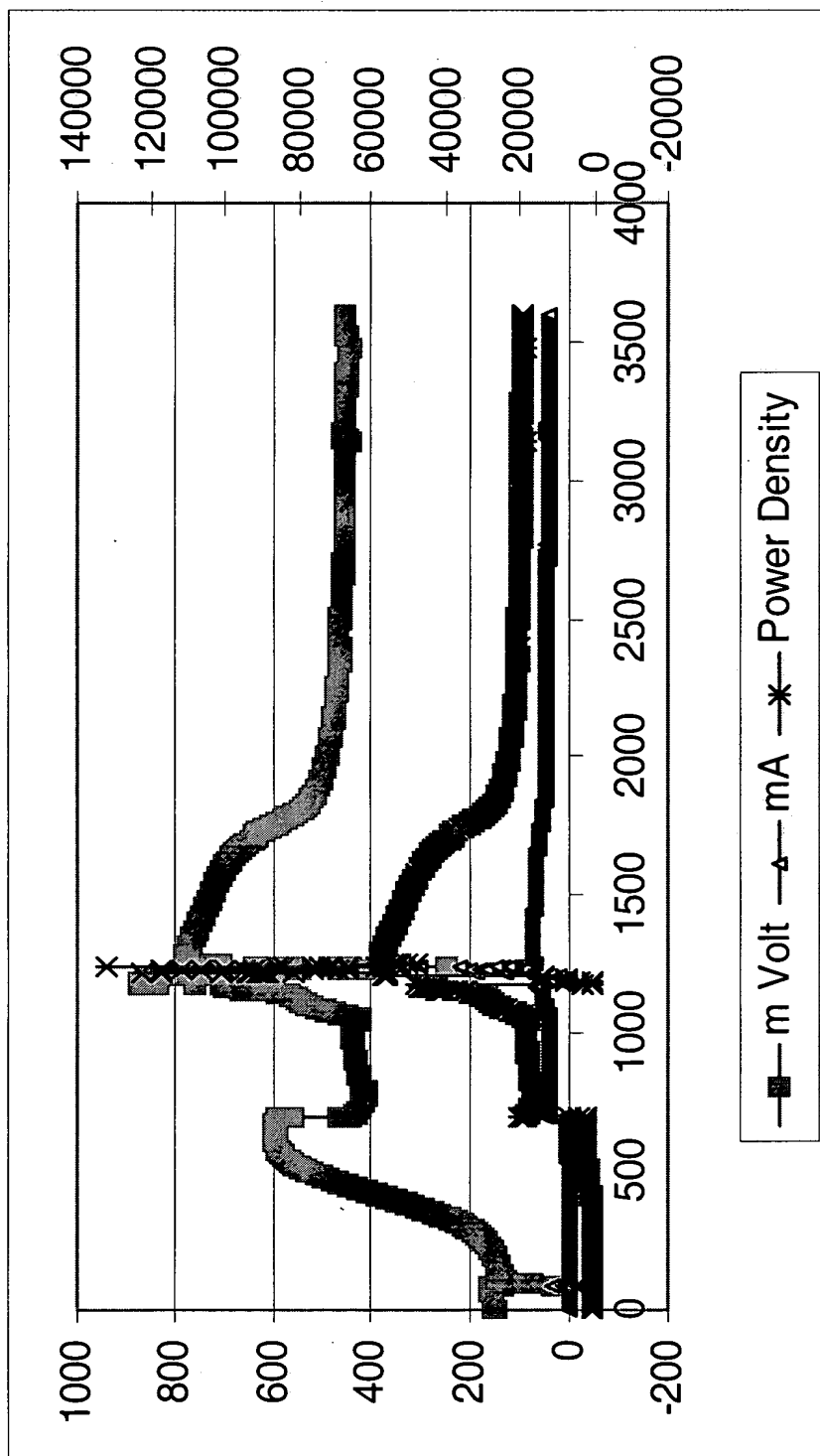
Magnesium and Solid Methanol DMFC3 Test in Pulse Mode
2. 4 gm 1:1 Mol ratio Magnesium and Solid Methanol + 1 gm 25% H_2SO_4



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FIG. 11

Magnesium and Solid Methanol DMFC3 Test in Pulse Mode
2. 4 gm 1:1 Mol ratio Magnesium and Solid Methanol + 1 gm 25% H₂SO₄



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FIG. 12

Magnesium and Solid Methanol DMFC3 Test in Pulse Mode
2. 4 gm 1:1 Mol ratio Magnesium and Solid Methanol + 1 gm 25% H2SO4

